REPORT

OF THE

COMMITTEE

OF THE

MANCHESTER AND SALFORD

SANITARY ASSOCIATION;

BEING

A SUMMARY OF THEIR PROCEEDINGS FOR THE YEAR 1862.

APPENDICES:

METECROLOGY OF MANCHESTER.
INTRAMURAL INTERMENTS—SUB-COMMITTEE'S REPORT.
ADULTERATION OF FOOD—REPORT ON, BY C. A. SWINBURNE, Esq.
ILLUMINATING OILS—REPORT ON, BY C. O'NEILL, Esq.

MANCHESTER:

POWLSON & SONS, PRINTERS, BOW-ST., JOHN DALTON STREET.
1863.

Communications for the Committee may be addressed to—

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77, Mosley Street.

Dr. NOBLE, Deputy Chairman,

Piccadilly.

ERNEST REUSS, Esq., Treasurer,

Portland Street.

To

The Honorary Secretaries { Dr. MORGAN, King Street.
C. H. KNIGHT, Esq., 75, Mosley Street.

Or to

Mr. C. G. CARTLEDGE, Secretary,

At the Offices of the Association, 33, Pall Mall,

(Near to the Bank of England.)

MANCHESTER AND SALFORD SANITARY ASSOCIATION.

Committee and Officers for the Year 1863.

President:

The Right Rev. The LORD BISHOP OF MANCHESTER.

Vice-Presidents:

The Worshipful the MAYOR of MANCHESTER.
The Worshipful the MAYOR of SALFORD.
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Honorary Secretaries:

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Mr. ROYSTON.

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Mr. GREAVES.
Mr. A. RANSOME.
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Mr. J. TEALE.
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Dr. WHITEHEAD.

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Dr. NOBLE.
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Mr. A. RANSOME.
Dr. ROBERTS.
Mr. WILLIAM ROYSTON.
Dr. SAMELSON.
Mr. J. TEALE.
Dr. WHITEHEAD.
Dr. M. A. EASON WILKINSON.

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Mr. C. O'NEILL.
Mr. A. RANSOME.
Dr. ROSCOE.
Mr. WM. ROYSTON.
Dr. A. SMITH.
Mr. C. A. SWINBURNE.
Mr. WILLIAMS.

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Mr. Councillor BOOTH.
Mr. JOHN LOWE.
Mr. W. RADFORD.
Mr. A. RANSOME.
Mr. ROYSTON.
Dr. SAMELSON.
Mr. Councillor WILLIAMS.
Mr. THOMAS WORTHINGTON.

The Chairman, Deputy-Chairman, and Honorary Secretaries, are, *ex-officio*, members of the above sub-Committees.

REPORT.

Summary.

After passing through a year of much privation and suffering to the working population of Manchester, it is a matter for great thankfulness that the Committee are able to report that the general health of the town has seldom been in better condition than it is at present.

In May last it was evident both from the death reports of the district registrars, and from the quarterly returns of the Registrar General, that the death-rate for the first five months of the year was greatly above the usual amount. It was feared that this mortality arose from the distressed condition of the people; and a circular was addressed to each of the contributors to the Weekly Return, asking for information on the subject. From the replies received from nearly all our correspondents, it appeared that the increased mortality could not be ascribed to the influence of distress or starvation. Further reference to the columns of the Return proved that it arose chiefly from the prevalence and fatality of whooping-cough and measles —546 deaths having occurred in four months from these two diseases alone. It is hard to believe that so large a number could have fallen victims to these diseases without great negligence or ignorance on the part of parents, both in exposing their children to infection, and failing to guard them from hurtful influences during

the progress of the disorder. From two diseases which amongst the higher classes are usually mild and not frequently fatal—an amount of mortality has arisen which in itself is sufficient to account for the increased magnitude of the death-rate this year as compared with that of 1861. If ordinary care had been taken of the children affected by these diseases—it cannot be doubted that many lives would have been saved. As the year went on, the mortality greatly diminished, notwithstanding the increased amount of distress then prevailing. In the last six months of the year the number of deaths was 5,409, against 6,273in the latter half of 1861.

Owing to a large increase of pauperism, and to the straitened circumstances of the bulk of the operatives and mill-hands, large numbers applied for relief, during sickness, to the parish medical officers, and to the various charitable medical institutions from which records of disease are received by this Association. The number of patients thus seeking relief being probably one-third greater than last year. No conclusions can be drawn as to the amount of sickness of various kinds, without taking this fact into account; since the diminution in the death-rate for the last six months of 1862 shows that on the whole there has been less sickness than usual amongst the labouring population.

In November last, Small Pox began to increase in prevalence, and in the week ending December 20th, there were 19 new cases of the disease. It is much to be desired that Vaccination could be more efficiently enforced than it is at present, and that the prejudices of the poor against its adoption could be removed.

The year 1861, was singularly free from Scarlatina, either in London or Manchester, but during the Autumn of 1862, this disease became much more prevalent and fatal in character.

In the week ending November 15th, 25 new cases of this disease were recorded; the largest number last year being 10 in the week ending October 5th.

Towards the close of the year it was authoritatively stated that, in consequence of the distress, Typhus Fever prevailed in Manchester, in an epidemic form, and that a low vital condition characterized the unfortunate operatives. After careful inquiry the Committee were obliged to come to a different conclusion, and an answer to the statement above was prepared by Dr. Morgan, and published, in the name of the Association, in the *Times*. The following were the grounds upon which the Committee were led to deny the correctness of the statement.

1. The diminished death-rate of the latter half of the year 1862. 6,273 deaths were reported by the District Registrars in the latter half of 1861; 5,979 in the first six months, and 5,409 in the latter six months of 1862; showing a difference of 864 lives in favour of the last period, during which the distress was at its height.

2. The number of deaths from Fevers of all kinds, as reported in the Weekly Return in the latter half of 1861, was 292; in the first and last six months of 1862, the numbers were 222 and 196 respectively. Showing that, as the distress increased, all kinds of Fever had diminished in frequency.

3. The following deaths amongst these cases were distinctly marked off, by the Registrars, as occasioned by Typhus Fever. In the last quarter of 1861, 17 persons died of Typhus; in the next three months (the first quarter of the year 1862), Typhus Fever claimed 21 cases; in the three following months it took 10; and in the two following quarters, the numbers respectively were 11 and 12. Thus in the six months during which the famine epidemic was said to have prevailed, it carried off only 23 victims; whilst, during the six preceding months, it sacrificed no less than 31.

4. In the Weekly Return of disease, under the head of continued Fever—all kinds of Fever are included, from simple feverish attacks, to Typhus Fever; but, notwithstanding the greatly increased area from which returns were received, the number of cases of Fever returned in the last six months of 1862, was 81 less than in the corresponding period last year. After the appearance of the state-

ment above mentioned, the contributors to the Weekly Return were requested to report specially upon any cases of Fever which turned out to be Typhus, and in 5 weeks only 6 cases were thus reported.

5. The records of the Fever-wards of the Manchester Royal Infirmary furnished evidence which fully corroborated the conclusions drawn from the documents of the Association. During the last six months of the year 1861, 17 cases of Typhus Fever were entered in the books of the Hospital. While during the last six months of the year 1862, we find only 14 cases, or three less. In the course of each year, the number of persons who died in the Fever-wards from this variety of Fever, was eight.

6. In November last, it was particularly requested that returns should be made of any cases of Purpura, a disease showing a low degree of vital power, and one which might have been expected to appear frequently had the mill hands been in the starving condition described. In two months, only one case was thus reported to the Committee.

7. From careful inquiries made from medical gentlemen in constant attendance upon the poor, from city missionaries and from district visitors, the almost unanimous opinion was received—that none of the effects of starvation could be traced either directly or remotely amongst the unemployed operatives; on the contrary the belief was expressed that the very poor were never so well cared for, never so well fed.

It will thus be seen that all the evidence points to the same conclusion—and declares distinctly that there has been no deterioration of health or strength amongst the operatives in consequence of the "Cotton Famine."

There can be no doubt that this immunity from diseases which might have been expected to accompany a season of distress, such as we are passing through, must be ascribed in great measure to the mode in which relief has been administered. Although other causes will also have been in operation—such as the greater sobriety of the working classes—from inability to procure stimulants, the larger

amount of out-door employment, and the more constant care which the mothers have been able to bestow upon their children.

It is evident, however, that the danger is still very far from being past, and while they believe that so far a wise caution has guided the various Relief Boards, the Committee would urge them not to relax their benevolent efforts, since it is only by constant care that the perils from diseases of a low type can be guarded against.

The Committee beg to call the attention of the subscribers to the subjoined table, prepared by Mr. Royston, showing the relative amount of mortality of Liverpool and Manchester :—

MORTALITY IN MANCHESTER AND LIVERPOOL.

(PER 1,000 OF THE POPULATION.)

	1858	1859	1860	1861	1862	Average for the five years.
Manchester...	36	30¾	30½	33	32¼	32½
Liverpool.....	36	30½	28½	32¼	33¼	32

It appears from these figures that Liverpool has not kept the ground which had been gained, and both towns show an increase in the total mortality for the year. When it is remembered that the average death-rate of England is 22 in the 1,000, it will be seen that much remains to be done in both places. The Sanitary improvements in Liverpool, especially with regard to the building of cottage dwellings, and in the closure of cellars, gave reason to hope that, in 1862, that town would have shown a still smaller death-rate. Epidemics, however, completely interfere with any conclusions drawn from a yearly comparison; and, in 1862, Scarlatina prevailed extensively in Liverpool. Let both towns urge forward measures of Sanitary Reform, and spread amongst the poor a better knowledge of the laws of health, and we cannot doubt that much vigorous energy, and many valuable lives will be preserved for the service of the Commonwealth.

The Weekly Return.

With each year this report upon the disease, mortality, and meteorology of the city and neighbourhood, gains rapidly in value, both as a weekly record of the public health, and as a series of statistics from which valuable conclusions may be drawn respecting the causes and progress of disease. Its usefulness has been abundantly proved during the past year, and its ready and accurate intelligence respecting the health of the district, during a time of extreme trial, has been frequently sought, not only by the inhabitants from our own district, but also by inquirers from a distance; amongst whom may be mentioned Sir J. K. Shuttleworth and Dr. Buchanan, the medical officer deputed by the Privy Council to inquire into the Sanitary condition of the Cotton Districts.

The Committee greatly regret that Mr. G. V. Vernon has been obliged to give up the correction and editing of the Meteorological returns; they beg to announce, however, that Mr. T. Mackereth, of Eccles, has kindly undertaken for the present this labour of compilation.

Since April 5th, Mr. Mackereth has furnished the Committee with a return of the Meteorology of Eccles. Two columns have been added to the Returns from charitable and other public institutions of the city. One, showing the number of cases of disease which came under treatment during the corresponding week of the preceding year; the other, giving the deaths which have occurred during the week amongst the cases of whom the disease-returns are made. When compared with the table on the last page of the return, which gives the total number of deaths in Manchester and Salford, this column will afford a means of estimating the virulence of the several diseases.

The Committee notice with much regret the loss by death of one of their contributors, Mr. Dyson. The district from which he kindly furnished returns has been taken by Mr. Broadbent, who continues to supply the Committee with a weekly return. An additional return

of deaths has been kindly furnished by Mr. Bowker, Registrar for the Pendleton District, and in order to secure accuracy in comparing the mortality of the corresponding weeks of the two years, the number of deaths in each week of 1861, in this district, has been ascertained and is added to the returns for that year.

Dr. R. D. Thompson continues to supply the Committee with monthly returns of disease from the parish of St. Marylebone, London, and they have been regularly published on the last page of the Weekly Return, along with similar returns for Manchester and Salford.

The Committee beg to thank Dr. R. D. Thompson for the opportunity which he thus affords to them of giving a view of the comparative Sanitary condition of the two places. A chart founded upon these tables is appended to the report, and it shows clearly the relative amount of disease of various kinds which have prevailed in London and Manchester. It is worthy of remark that the curves projected upon this chart show again, as in 1861, a remarkable general accordance both in their rise and fall, between the epidemics prevailing in the two cities; more especially those of small-pox, measles, scarlatina, erysipelas, bronchitis and catarrh, diarrhœa and dysentery. Such a correspondence points to the presence of some influence which acts apart from differences of locality, chemical manufactures, or sanitary conditions. Diarrhœa has generally been much more rife in London than in Manchester, perhaps in consequence of the bad quality of the drinking water of the Metropolis. Last year, diarrhœa and dysentery, although much less frequent than in the preceding twelve months, were still very common in St. Marylebone, London, 1,539 cases being recorded in one month, whereas, in Manchester, the highest number is 620. Bronchitis and catarrh, on the other hand, are much more frequent in Manchester, and the curve of this disease rises to a much greater height than can be explained simply by the increased number of applicants for charitable aid.

It may be interesting to remark upon this subject that efforts have been made, apart from this Association, to obtain returns of

disease from all the chief towns of the district, including Ashton-under-Lyne, Blackburn, Bolton, Chester, Liverpool, Oldham, Preston, Rochdale, Stockport, and Warrington. Should these efforts prove successful at some future period they will afford most valuable data for the study of the causation of disease, the influence of climate and season, of prosperity or distress, of the trades and manufactures, or of any other circumstances peculiar to the district.

The Committee are deeply indebted to the gentlemen who have contributed to the Weekly Return; week by week *every column* in the list of disease and death has been filled up. None have been left vacant in the whole weekly series, thus giving it a value which no similar return has ever attained before.

They have not only supplied this record, but they have also answered with readiness special inquiries made of them by the Committee with reference to the Sanitary condition of their districts. Apart from the professional ability of the contributors, such regularity and willing aid is a sufficient guarantee of the general accuracy of the returns, and it calls for the warmest thanks of the Committee.

Mr. Mackereth has presented to the Committee an able Report upon the Meteorology of the City and the surrounding district, a copy of which is appended to the General Report.

Lectures.

The followlng Lectures have been delivered since the last Report:—

Lecturer.	*Subject.*	*Place.*
T. Turner, Esq....	*Man's Dependance on the External World*	St. Oswald's School, Collyhurst.
Ditto	*The Physical and Moral Influences of a Happy Home.*	St. Silas' School, Ashton Road
Ditto	*The present Crisis of Commercial Distress, and its influences on Health and Life*...	Town Hall, Salford.
Ditto	*On the Giants that war against Health*	St. Patrick's School, Livesey Street.

Lecturer.	*Subject.*	*Place.*
Dr. F. Crace Calvert	*Human Digestion*	St. Stephen's School, Everton Road.
Ditto	*The Influence of Little Things in Life*	Mr. Clarke's Mill, Piercy Street, Ancoats.
Ditto	*Foul Air*	Temperance Hall, Grosvenor Street.
A. W. Dumville, Esq	*The Influence of the Nervous System in Health and Disease*	St. Thomas' School, North Street, Ardwick.
A. J. Scott, Esq....	*Money's Worth*	Town Hall, Salford.
A. Ransome, Esq....	*The Perils of Childhood*	St. Mark's School, City Road
Dr. Ledward.....	*Children's Troubles*	Christ Church School, Queen Street, Hulme.
Ditto	*The Stomach, and what to put in it*.....	Bennet Street School, Oldham Road.
Ditto	*Ditto*	St. Matthias' School, Salford.
Ditto	*Why are we Warm?—and How we keep so*	St. Jude's School, Ancoats.
Ditto	*Fresh Air*	Clayton Church School.
Dr. Roscoe	*The Air we Breathe*	St. Andrew's School, Ancoats
Dr. Morgan	*Alcohol in Excess. What are its Effects?*	St. Michael's School, Miller Street.
Chas. O'Neill, Esq.	*Chemistry of Life*	St. John's School, Miles Platting.
Ditto	*Ditto*	St. John's School, Cleminson Street, Salford.
Dr. T. Alcock	*How to have Health in a Cottage*	St. Mary's School, Moss Lane, Hulme.
Ditto	*Ditto*	St. Michael's School, Miller Street.
Ditto	*Ditto*	Temperance Hall, Ordsal Lane.
G. Greaves, Esq....	*How to Rear a Baby*	St. Barnabas' School, Elizabeth Street, Butler Street, Oldham Road.
Ditto	*On the Care of the Skin*....	St. Mary's School, Upper Moss Lane, Hulme.

Lecturer.	*Subject.*	*Place.*
Rev. St. Vincent Beechey	*The Longevity of Man*	Christ Church School, Hulme Street, Salford.
Dr. R. A. Smith....	*Habits of Order in Man and Nature*.....	Trinity Church School, Bury Street, Salford.
Rev. J. D. Kelly ..	*Open-Air Exercises*.....	St. Peter's School, Fleet Street.
Rev. T. G. Lee....	*A Clean House, and Money in the Bank*	Temperance Hall, Grosvenor Street.
J. D. Morell, Esq..	*The Passions*	Christ Church School, Hulme Street, Salford.
Rev. J. Guttridge..	*Philanthropy*	Gravel Lane Wesleyan School, Salford.

In addition to these, Mr. A. Ransome delivered four Lectures upon Sanitary subjects to the City Missionaries.

The warmest thanks of the Committee are due to the clergymen and gentlemen above named. The interest of the public in the Lectures has continued unabated, as manifested by the large audiences the lecturers have had. In addition to the ordinary Lectures, the Committee, at the request of the Recreation Evening Committee, have arranged for a course of Sanitary Lectures to be delivered to the Unemployed Operatives.

Ladies' Sanitary Association.

The Committee are indebted to this Association for a supply of their most useful series of Tracts upon Sanitary subjects.

Whose Fault is it?
The Sick Child's Cry.
The Health of the Parish.
Practical Hints.
Our Father's Care.
Work and Play.
Never Despair
Something Homely
The Power of Soap and Water.
About to Marry.
The Mischiefs of Bad Air.
The Cheap Doctor.
Household Troubles and Trials.
Wedded Life.
,, Lost and Found.
,, The Mother.
Always Washing.
Going to School.
When were you Vaccinated.
The Bride's New Home.
A Day in the Country.
Bodily Life, Part I.
Why do People Hasten Death.
How to Manage a Baby.
The Health of Mothers.
Bodily Life, Part III.

Nearly all of these publications have been distributed to the girls employed in the Sewing Schools.

Intramural Interments.

In consequence of representations made to the General Committee, as to the continued use of burial grounds within the City, a Sub-Committee was appointed to inquire as to the extent to which intramural interment was carried on in Manchester.

After careful inspection of the various burial grounds and cemeteries in Manchester, and investigation into the regulations affecting them, an able report upon the subject was drawn up, and was presented to the General Committee. It was published and circulated in quarters where it was likely to prove useful. A copy is appended to this report.

The Committee understand that the subject is one now engaging the attention of the City Council, and they trust that immediate action may be the result.

Infant Mortality.

The Cards of Instruction to Mothers upon the management of their children have been much sought for, not only in Manchester, but in several other towns, both in England and Scotland. Many of them have been disposed of to the poor by the clergy of the town, and by the City Missionaries. The patterns of baby clothing have also been very useful at the Mother's Meetings, both those formed in connection with the different churches, and those managed by the Bible women of the City Mission. There has, however, been little or no demand for those patterns which were placed under the charge of shop keepers in the several districts.

Tracts.

The demand for the series of Tracts, published by the Association, has been well sustained during the past year, and the Committee notice with pleasure that the number sold has exceeded that of any former year. The Tracts have been supplied gratuitously to the Sewing Schools and Working Men's Institutes, in addition to the ordinary circulation.

Adulteration of Food.

The Committee are sorry to state that nothing practical has resulted from the memorial to the City Council referred to in the last report. The Committee are glad to learn that the Corporation of Salford is likely to consider the expediency of appointing a Public Analyst for that borough. The Committee feeling the ineffectiveness of Mr. Scholfield's Act for the Prevention of Adulteration, requested Mr. Swinburne to prepare suggestions for amending it, so as to make it operative—and his report is appended. The Sub-Committee on the Adulteration of Food, have been in correspondence with Mr. Horsley and Mr. D. L. Thorpe, of Cheltenham, and Dr. Ballard, of Islington, London; and they have to record their best thanks to these gentlemen for their valuable communications. The Committee having failed to secure the appointment of a Public Analyst for Manchester, have deemed it expedient to endeavour to test the extent to which Adulteration is carried, and samples of the following articles have been purchased at various shops in different neighbourhoods, viz.:—bread, flour, mustard, pepper, pickles, tea, coffee, sugar, butter, cocoa, meal, beer, brandy, gin, and whisky. Dr. Calvert, Dr. Roscoe, Dr. Schunck, Dr. R. A. Smith, and Mr. O'Neill, have kindly undertaken the Analysis and their reports will shortly be published.

Early in the year the attention of the Committee was called to the number of fatal accidents caused by the explosion of mineral oils; and, with a view to cautioning the public against the danger attending the use of these oils, Mr. C. O'Neill examined several oils and presented a report to the Committee, which is annexed.

Finance.

A statement of the Income and Expenditure is appended to this Report. Owing to the state of trade, the Income during the past year, has been less than that for 1861, and although the Committee have carefully economised and reduced the number of Lectures for the present Winter, the Balance in hand at the last report (£65 4s. 2d.), is reduced to £31 15s. 5d. at the present time; the Committee, however, venture to hope that when the trade of the district revives, the Association will receive pecuniary support commensurate with its importance and value to the public.

The Committee, in recording the resignation of Mr. Arthur Ransome, who has acted as one of the Honorary Secretaries for upwards of four years, desire to express their deep sense of the value of his very able and suggestive services.

ERNEST REUSS, Esq., *Treasurer, in Account with the Manchester and Salford Sanitary Association.*

JANUARY 1ST, 1862, TO DECEMBER 31ST, 1862.

Dr.

	£	s.	d.
To Balance in Bank, 31st December, 1861	65	4	2
,, Interest allowed by Bankers, to 31st December, 1862	0	19	5
,, Subscriptions	271	11	6
,, Tracts sold	20	9	11
	£358	5	0

Cr.

	£	s.	d.
By Rent and Taxes	37	0	0
,, Secretary's Salary	60	0	0
,, Commission allowed Collector	13	11	6
,, Expenses attending Lectures	7	12	11
,, Postages	13	0	7
,, Expenses of Food—Adulteration Sub-Committee	2	12	4
,, Petty Cash, including Wages of Boy	19	7	8
,, Printing	158	1	0
,, Stationery and Books	3	3	6
,, Cost of Materials and making of patterns of Baby Clothing	7	11	3
,, Joiner's Work, &c.	3	12	5
,, Bank Commission, 1862	0	16	5
,, Balance in Bank	31	15	5
	£358	5	0

Examined and found correct,

ERNEST REUSS.
C. H. KNIGHT.

Manchester,
December 31st, 1862.

ERNEST REUSS, ESQ., *Treasurer, in Account with the Manchester and Salford Sanitary Association.*

TRACT FUND.

Dr.

		£	s.	d.
1861.				
Dec. 31.	To Balance in Bank	30	13	4
1862.				
Dec. 31.	To Interest allowed by Bank	0	9	4
		£31	2	8
	Balance in Bank this day	31	2	8

Cr.

		£	s.	d.
1862.				
Dec. 31.	By Balance in Bank	31	2	8
		£31	2	8

Manchester,
December 31*st*, 1862.

Examined and found correct,

ERNEST REUSS.
C. H. KNIGHT.

MEMBERS FROM DONATIONS IN FORMER YEARS.

	£	s.	d.
Barbour, Robert, Esq	10	0	0
Binyon, Miss (Clifton)	5	0	0
Brooks, Samuel, Esq	5	0	0
Chadwick, R., Esq	20	0	0
Coultate, E., Esq	5	0	0
Ellesmere, The Earl of	5	0	0
Gardner, Robert, Esq	5	5	0
Gillibrand, P., Esq	5	0	0
Heywood, E. S., Esq	20	0	0
Heywood, Sir A., Bart	5	5	0
Heywood, Arthur H., Esq	5	0	0
Heywood, James, Esq.	5	0	0
Heywood, Oliver, Esq.	15	0	0
Houldsworth, Henry, Esq	10	0	0
Jones, R. Jennings, Esq	5	0	0
Jones, W. C., Esq	5	0	0
Macintosh, Messrs. C., and Co	5	5	0
Manchester, The Lord Bishop of	10	0	0
Potters and Norris, Messrs	5	5	0
Plant, James, Esq.	5	0	0
Schunck, Souchay, and Co., Messrs.	5	0	0
Spafford, George, Esq	5	5	0
Taylor, J. E., Esq	5	5	0
Todd and Coston, Messrs.	5	0	0
Turner, J. Aspinall Esq., M.P.	5	0	0
Watkins, W. B., Esq	10	0	0
Wood, W. Rayner, Esq	5	0	0

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	£	s.	d.
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Ashton F., Esq	1	1	0
Atherton James, Esq	2	2	0
Atkinson F., Esq	1	1	0
Ashworth Joseph, Esq	1	1	0
Ashworth Thomas, Esq	1	1	0
Agnew Thomas, Esq	1	1	0
Atkinson and Gould, Messrs	1	1	0
Andrew Henry, Esq	1	1	0
Alcock Misses	1	1	0
Amies Nathaniel Jones, Esq	1	1	0
Barbour, Messrs. R., and Brother	2	2	0
Brooks S., Esq.	2	2	0
Barnes Robert, Esq	2	2	0
Bardsley Sir James, L., M.D.	2	2	0
Behrens, Messrs. S. L., and Co	2	2	0
Butterworth J., Esq	2	2	0
Bayley and Craven, Messrs.	2	2	0
Bazley and Vernon, Messrs.	2	2	0
Brown Messrs. J., Son and Co	2	2	0
Butterworth and Brooks, Messrs	2	2	0
Bellhouse, Messrs. J. and W	2	2	0
Bury Henry, Esq.	1	1	0
Bannerman J., Esq	1	1	0

	£	s.	d.
Bannerman J. A., Esq	1	1	0
Browne Dr. Henry	1	1	0
Brown William B., Esq	1	1	0
Booth William, Esq	1	1	0
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Barge Thomas, Esq.	1	1	0
Buckley Edmund, Esq	1	1	0
Bazley Thomas, Esq., M.P.	1	1	0
Bazley Henry, Esq	1	1	0
Binyons, Robinson, and Co., Messrs	1	1	0
Bright Messrs., and Co	1	1	0
Birks E. B., Esq	1	0	0
Barker N., Esq	0	10	6
Birch Rev. Edward, M.A	0	10	6
Bromiley Mr. Councillor	0	10	6
Bowman E., Esq	0	10	0
Booth Mr. Councillor (Salford)	0	5	0
Bolderson J., Jun., Esq	0	10	6
Carlton Messrs. J., Walker, and Co	2	2	0
Carlisle Brothers, Messrs	1	0	0
Cunliffe and Sons, Messrs	1	1	0
Crewdson T. D., Esq	1	1	0
Consterdine Joseph, Esq	1	1	0
Carver, Brothers, and Co., Messrs	1	1	0
Consterdine Robert, Esq	1	1	0
Crum Walter, Messrs., and Co	1	1	0
Crook, John, Esq	1	1	0
Calvert Dr. F. C	1	1	0
Capes W. H., Esq	1	1	0
Carver William, Esq	1	0	0
Clarke Daniel, Esq	1	1	0
Clayton J., Esq	1	1	0
Chadwick David, Esq	1	1	0
Compton Joseph, Esq	1	1	0
Consterdine and Co., Messrs	1	1	0
Charlewood H., Esq	1	1	0
Cooke Thomas, Esq.	1	1	0

	£	s.	d.
Chadwick John, Esq	0	10	6
Cawley C. E., Esq	1	1	0
Dugdale Messrs. John, and Brothers	1	1	0
D'Hauregard Messrs. H., and Co	1	1	0
Entwistle William, Esq	2	2	0
Elce Messrs. John, and Co	1	1	0
Fletcher Samuel, Esq	2	2	0
Fletcher Messrs., Son, and Co	2	2	0
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Fairbairn William, Esq	1	1	0
Franklin J. A., Esq	0	10	6
Fryer, Benson, and Forster, Messrs	1	1	0
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Gladstone Robert, Esq	2	2	0
Gardner Robert, Esq	2	2	0
Greg Messrs. R. H., and Co	2	2	0
Galloway, Messrs. W. and J	2	2	0
Graham Messrs. William, and Co	1	1	0
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Grover J. D. K., Esq	1	1	0
Gaskell Rev William	1	1	0
Gladstone Murray, Esq	1	1	0
Gibb William, Esq	1	1	0
Gibson Rev. Canon	1	1	0
Greaves George, Esq	0	10	6
Harter William, Esq	2	2	0
Heywood Arthur H., Esq	2	2	0
Heywood Sir Benjamin, Bart	2	2	0
Heywood E. S., Esq	2	2	0
Heywood Oliver, Esq	2	2	0
Hunter Thomas, Esq	2	2	0

	£	s.	d.
Huschke A. H., Esq	2	2	0
Hickson, Lloyd, and King, Messrs	1	1	0
Houldsworth H., Esq	2	0	0
Houldsworth Messrs. J., and Co	1	1	0
Harrison Dr. G. Morley	0	10	6
Ireland Messrs. Alexander, and Co	1	1	0
Jackson Messrs. E., and J	1	1	0
Jewsbury and Crux, Messrs	1	1	0
Jackson J. W., Esq	1	0	0
Jackson H. B., Esq	0	10	6
Joule Dr. J. P	0	10	6
James and Chabot, Messrs	1	1	0
Kershaw, Sidebottom, and Co., Messrs	2	2	0
Kipping J. S., Esq	1	1	0
Kipping J., Jun., Esq	0	5	0
Keighley J., Esq	1	1	0
Kingsley John, Esq	0	10	0
Lucas Philip, Esq	2	2	0
Langton William, Esq	2	2	0
Leissler John. Esq	2	2	0
Lees Daniel, and Co., Messrs.	3	3	0
Langworthy, Brothers, and Co., Messrs	1	1	0
Lyon Messrs. Edward, and Brother	1	1	0
Littlewood and Wilson, Messrs	1	1	0
Le Mare E. R., Esq	1	1	0
Lee Henry, Esq	1	1	0
Lee Daniel, Esq	2	2	0
Lund Edward, Esq	1	1	0
M'Laren Messrs. James, and Nephew	2	2	0
Macintosh Messrs. Charles, and Co	2	2	0
Munn Messrs. John, and Co	2	2	0
Micholls Horatio, Esq	1	1	0
Makin and Walker, Messrs	1	1	0

	£	s.	d.
Marsland and Hole, Messrs	1	1	0
M'Connel W., Esq.	2	2	0
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M'Naughton and Thom, Messrs	1	1	0
Morris William, Esq	1	1	0
Moller Isaac Joseph, Esq	1	1	0
Mellor Thomas, Esq	1	1	0
Midwood William Bellhouse, Esq	0	10	6
M'Clure Messrs. John, and Son	1	1	0
Mendel Sam, Esq	1	1	0
Marsden Richard, Esq	1	1	0
Mayson J. S., Esq	0	10	0
M'Cartie Rev. Joseph	0	10	0
M'Kerrow Rev. Dr	0	10	0
Novelli and Co., Messrs	2	2	0
Neild William, Esq.	2	2	0
Nevill T. H., Esq	2	2	0
Neild Alfred, Esq	1	1	0
Neild Arthur, Esq	1	1	0
Nicholls B. Esq	1	1	0
Noble Dr	1	1	0
Ogden Messrs. Robert, and Sons	2	2	0
Ogden Messrs. R., and Sons	1	1	0
Ogden Dr	0	10	0
Ollivant J., Esq	1	1	0
Ogden Henry, Esq	I	1	0
Ovens Edward, Esq	1	1	0
Peel, Messrs. J. and G	2	2	0
Peel, Bellairs, and Co., Messrs	2	2	0
Philips, Messrs. J. N., and Co	2	2	0
Peel, Messrs. John, and Co	2	2	0
Potters and Norris, Messrs	2	2	0
Philips Herbert, Esq	1	1	0
Potter Sydney, Esq	1	1	0
Potter, Messrs. Edmund, and Co	1	1	0

	£	s.	d.
Pearce, Messrs. M., and Co.	1	1	0
Parnell Francis, Esq	1	0	0
Powlson and Sons, Messrs	1	1	0
Potter and Wood, Messrs	1	1	0
Pearson Alderman, Mr.	0	10	6
Potter William, Esq	0	5	0
Reuss Ernest, Esq	2	2	0
Reiss Brothers, Messrs	2	2	0
Ransome Arthur, Esq	1	1	0
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Richson Rev. Canon	1	1	0
Rylands and Son, Messrs	1	1	0
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Rumney Robert, Esq	0	10	0
Reddellien H., Esq	0	10	0
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Rigby John, Esq	1	0	0
Reid John, Esq	1	1	0
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Smith W., Esq.	1	1	0
Sewell J., Esq	1	1	0
Smith Dr. R. A	1	1	0
Sowler Thomas, Esq	1	1	0
Satterfield J., Esq	1	1	0
Shaw John, Esq	1	1	0
Shaw W. H., Esq	1	1	0

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Taylor, Garnett, and Co., Messrs	2	2	0
Turner J. Aspinall, Esq., M.P	1	1	0
Turner Wright, Esq	1	1	0
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Thompson Joseph, Esq	1	1	0
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Worsley C. C., Esq	2	2	0
Westhead, Messrs. J. P. and E., and Co	2	2	0
Westmore Rev. H. H	1	I	0
Wadkin and King, Messrs	1	1	0
Weston S., Esq	1	1	0
Warner Thomas, Esq	1	1	0
Winterbottom A., Esq.	1	0	0
Worthington E., Esq	1	1	0
Wilkinson Dr. M. A. E	1	1	0
Watts Sir James	1	1	0
Watts Samuel, Esq	1	1	0
Watkin, Messrs. W. B., and Co	1	1	0
Whittaker John, Esq	1	1	0
Williams, Messrs. L. and E	1	1	0
Worthington Thomas, Esq	1	1	0
Whitworth, Messrs. B., and Brother	2	0	0
Williams W. J., Esq	0	10	0
Whitehead Dr	1	1	0
Welsh Anthony, Esq	1	1	0
Yates William, Esq	1	1	0